

**Submittal Data: LIVS24HP230V1A      24,000 BTU/H (208/230V) Wall Mounted Heat Pump System**

|          |          |      |
|----------|----------|------|
| Job Name | Location | Date |
|----------|----------|------|

|           |          |
|-----------|----------|
| Purchaser | Engineer |
|-----------|----------|

|              |     |                                    |                                   |                                       |
|--------------|-----|------------------------------------|-----------------------------------|---------------------------------------|
| Submitted To | For | <input type="checkbox"/> Reference | <input type="checkbox"/> Approval | <input type="checkbox"/> Construction |
|--------------|-----|------------------------------------|-----------------------------------|---------------------------------------|

|                  |              |
|------------------|--------------|
| Unit Designation | Schedule No. |
|------------------|--------------|

- GENERAL FEATURES**
- High Efficiency DC Inverter Technology
  - Compact and Quiet Design
  - Vertical Swing Louver
  - Wireless Remote with LCD Display
  - XK-41 Wired Tether Controller ( Sold Separately)
  - Low Ambient Cool to 0 deg F
  - Blue Fin Condenser Coil
  - 5 year Limited Parts Warranty
  - 7 year Limited Compressor Warranty



| System Ratings |
|----------------|
|----------------|

|                         |       |                    |
|-------------------------|-------|--------------------|
| <b>Cooling</b>          |       |                    |
| Rated Capacity          |       | 22,000 BTU/H       |
| Capacity Range          |       | 8,630-23,200 BTU/H |
| Power Input (Max)       |       | 2,260 W            |
| SEER                    |       | 16.0               |
| EER                     |       | 9.75               |
| <b>Heating at 47° F</b> |       |                    |
| Rated Capacity          |       | 23,000 BTU/H       |
| Capacity Range          |       | 8,650-26,000 BTU/H |
| Power Input (Max)       |       | 2,300 W            |
| HSPF                    |       | 9.0                |
| COP                     |       | 2.9                |
| <b>Heating at 17° F</b> |       |                    |
| Rated Capacity          |       | 13,500 BTU/H       |
| <b>Operating Range</b>  |       |                    |
| Cooling                 | (Max) | 115°F (46 C)       |
|                         | (Min) | 0°F (-18 C)        |
| Heating                 | (Max) | 75°F (24 C)        |
|                         | (Min) | -4°F (-20 C)       |

| Indoor Unit Data |
|------------------|
|------------------|

|                             |              |                   |
|-----------------------------|--------------|-------------------|
| <b>Fan Motor</b>            | <b>Type</b>  | <b>Cross-Flow</b> |
|                             | Output Power | 40 W              |
|                             | FLA          | 0.3 A             |
| <b>Airflow</b>              |              |                   |
| Cooling                     | Wet (Lo/Hi)  | 530/706 CFM       |
| Heating                     | Dry (Lo/Hi)  | 530/706 CFM       |
| <b>Sound Pressure Level</b> |              |                   |
| Cooling                     | (Min/Max)    | 36/48 db(A)       |
| Heating                     | (Min/Max)    | 36/48 db(A)       |
| <b>Dehumidification</b>     |              | 5.28 pt/hr        |

| Refrigerant Piping Data |
|-------------------------|
|-------------------------|

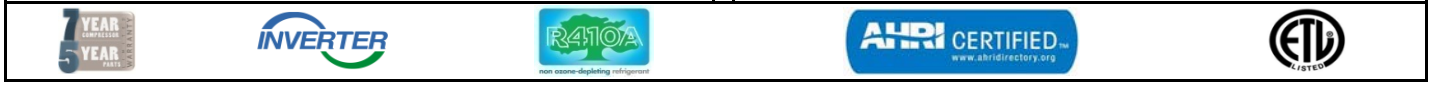
|                                |         |
|--------------------------------|---------|
| Gas Pipe Size (OD)             | 5/8-in  |
| Liquid Pipe Size (OD)          | 1/4-in  |
| Connection Method              | Flared  |
| Factory Charge                 | 65.3 oz |
| Additional Charge              | 0.54 oz |
| Pre-Charge Length              | 25-ft   |
| MAX Refrigerant Pipe Length    | 82-ft   |
| MIN Refrigerant Pipe Length    | 10-ft   |
| MAX Refrigerant Pipe Elevation | 33-ft   |

| Outdoor Unit Data |
|-------------------|
|-------------------|

|                         |                     |                                  |
|-------------------------|---------------------|----------------------------------|
| <b>Compressor</b>       | <b>Type</b>         | <b>DC Inverter Driven Rotary</b> |
|                         | RLA                 | <b>12.2 A</b>                    |
| <b>Refrigerant Type</b> |                     | <b>R410A</b>                     |
| <b>Fan Motor</b>        | <b>Output Power</b> | <b>60 W</b>                      |
|                         | FLA                 | <b>0.40 A</b>                    |
| <b>Sound Pressure</b>   |                     |                                  |
| Cooling/Heating         |                     | 59/59 db(A)                      |

| Electrical Data |
|-----------------|
|-----------------|

|                            |  |                           |
|----------------------------|--|---------------------------|
| <b>Power Supply</b>        |  |                           |
| Normal Operational Voltage |  | 208/230 V, 1 Phase, 60 Hz |
| Voltage Range              |  | 187 - 253 V               |
| MCA                        |  | 16.0 A                    |
| MOCP/Breaker Size          |  | 25 A                      |
| Main Power Wire Size       |  | 12-2 AWG                  |



**COOLING PERFORMANCE (BtuH)\***

| Outdoor Ambient<br>DB | Indoor Ambient Temperature |        |              |        |              |        |              |        |
|-----------------------|----------------------------|--------|--------------|--------|--------------|--------|--------------|--------|
|                       | 68F DB (20C)               |        | 73F DB (23C) |        | 80F DB (27C) |        | 82F DB (28C) |        |
|                       | 57F WB (14C)               |        | 61F WB (16C) |        | 67F WB (19C) |        | 68F WB (20C) |        |
|                       | TC                         | SHC    | TC           | SHC    | TC           | SHC    | TC           | SHC    |
| 0°F                   | 10,940                     | 8,580  | 11,557       | 9,061  | 13,043       | 10,230 | 13,434       | 10,479 |
| 5°F                   | 11,891                     | 9,326  | 12,562       | 9,848  | 14,177       | 11,120 | 14,603       | 11,390 |
| 14°F                  | 13,794                     | 10,818 | 14,572       | 11,424 | 16,446       | 12,899 | 16,939       | 13,212 |
| 23°F                  | 15,112                     | 11,855 | 16,165       | 12,680 | 18,521       | 14,526 | 19,077       | 14,880 |
| 32°F                  | 15,679                     | 12,299 | 16,771       | 13,155 | 19,216       | 15,071 | 19,792       | 15,438 |
| 41°F                  | 16,267                     | 12,761 | 17,400       | 13,648 | 19,936       | 15,636 | 20,534       | 16,017 |
| 50°F                  | 16,877                     | 13,239 | 18,052       | 14,160 | 20,684       | 16,223 | 21,304       | 16,617 |
| 59°F                  | 18,327                     | 14,373 | 19,602       | 15,373 | 21,469       | 16,833 | 22,113       | 17,248 |
| 68°F                  | 20,755                     | 16,278 | 22,052       | 17,293 | 23,566       | 18,483 | 24,273       | 18,933 |
| 77°F                  | 20,510                     | 16,089 | 21,815       | 17,111 | 23,350       | 18,315 | 24,050       | 18,759 |
| 86°F                  | 19,501                     | 15,293 | 20,798       | 16,315 | 22,701       | 17,804 | 23,382       | 18,238 |
| 95°F                  | 18,456                     | 14,475 | 18,845       | 14,782 | 21,620       | 16,957 | 22,269       | 17,370 |
| 104°F                 | 17,563                     | 13,775 | 17,945       | 14,074 | 20,058       | 16,519 | 20,660       | 16,115 |
| 113°F                 | 16,662                     | 13,067 | 17,296       | 13,563 | 18,621       | 15,811 | 19,179       | 14,960 |
| 115°F                 | 16,612                     | 13,028 | 17,368       | 13,620 | 18,566       | 15,750 | 19,123       | 14,916 |

**HEATING PERFORMANCE (BtuH)\***

| Outdoor Ambient DB | Indoor Ambient Temperature |        |              |        |              |        |              |        |
|--------------------|----------------------------|--------|--------------|--------|--------------|--------|--------------|--------|
|                    | 68F DB (20C)               |        | 73F DB (23C) |        | 80F DB (27C) |        | 86F DB (30C) |        |
|                    | 57F WB (14C)               |        | 61F WB (16C) |        | 67F WB (19C) |        | 72F WB (22C) |        |
|                    | TC                         | SHC    | TC           | SHC    | TC           | SHC    | TC           | SHC    |
| -4°F               | 11,659                     | 11,659 | 11,463       | 11,463 | 11,235       | 11,235 | 11,000       | 11,000 |
| 0°F                | 12,634                     | 12,634 | 12,423       | 12,423 | 12,176       | 12,176 | 11,912       | 11,912 |
| 6°F                | 13,328                     | 13,328 | 13,103       | 13,103 | 12,843       | 12,843 | 12,564       | 12,564 |
| 10°F               | 13,882                     | 13,882 | 13,650       | 13,650 | 13,379       | 13,379 | 13,089       | 13,089 |
| 16°F               | 14,302                     | 14,302 | 14,064       | 14,064 | 13,784       | 13,784 | 13,482       | 13,482 |
| 19°F               | 14,576                     | 14,576 | 14,337       | 14,337 | 14,052       | 14,052 | 13,741       | 13,741 |
| 24°F               | 16,216                     | 16,216 | 15,971       | 15,971 | 15,653       | 15,653 | 15,382       | 15,382 |
| 32°F               | 18,123                     | 18,123 | 17,878       | 17,878 | 17,522       | 17,522 | 17,289       | 17,289 |
| 41°F               | 20,304                     | 20,304 | 20,065       | 20,065 | 19,666       | 19,666 | 19,469       | 19,469 |
| 43°F               | 20,851                     | 20,851 | 20,605       | 20,605 | 20,195       | 20,195 | 20,016       | 20,016 |
| 47°F               | 22,659                     | 22,659 | 22,267       | 22,267 | 21,824       | 21,824 | 21,299       | 21,299 |
| 53°F               | 22,884                     | 22,884 | 22,484       | 22,484 | 22,037       | 22,037 | 21,510       | 21,510 |
| 59°F               | 23,410                     | 23,410 | 22,996       | 22,996 | 22,538       | 22,538 | 22,000       | 22,000 |
| 64°F               | 23,907                     | 23,907 | 23,487       | 23,487 | 23,019       | 23,019 | 22,470       | 22,470 |
| 70°F               | 24,356                     | 24,356 | 23,935       | 23,935 | 23,459       | 23,459 | 22,898       | 22,898 |
| 75°F               | 24,700                     | 24,700 | 24,265       | 24,265 | 23,782       | 23,782 | 23,213       | 23,213 |

\* Maximum system capacity

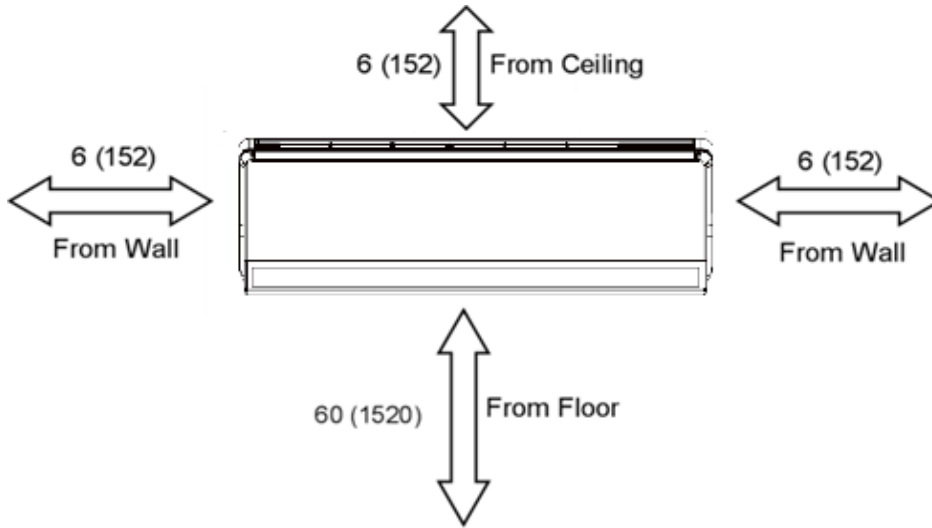
TC- Total Capacity ( BtuH)  
 SHC- Sensible Capacity (BtuH)



MINIMUM SPACING REQUIREMENTS

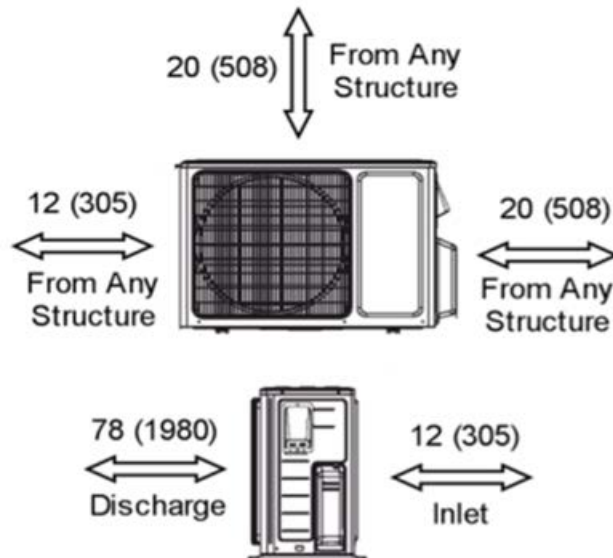
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



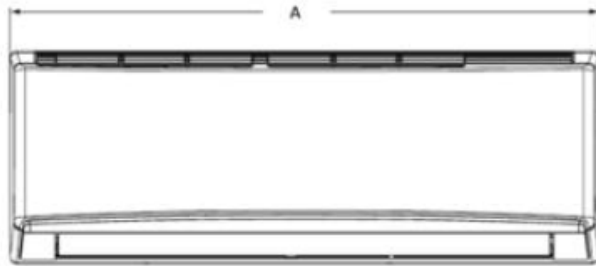
## DIMENSIONAL SPECIFICATIONS

LIVS24HP230V1A

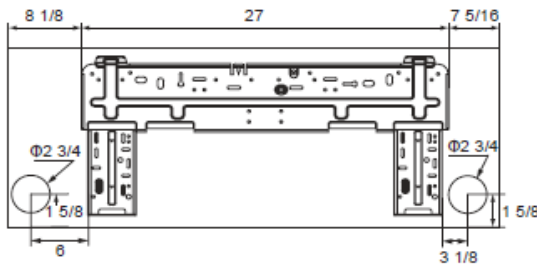
### INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS24HP230V1AH



| Dimensions |      |
|------------|------|
| A          | 42.4 |
| B          | 12.8 |
| C          | 9.7  |



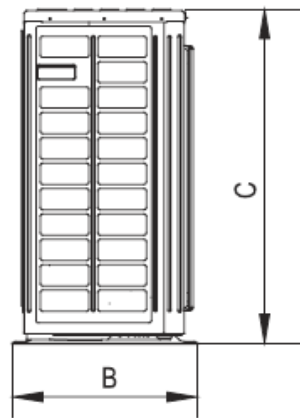
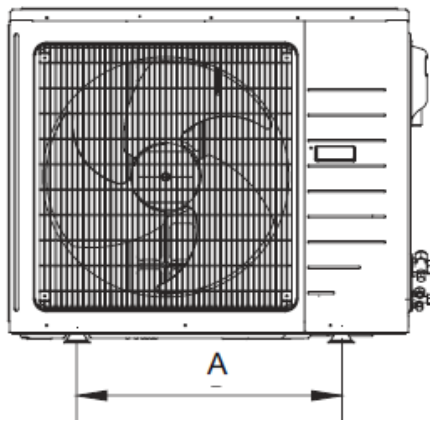
Weight (Net/Gross) 37.5/45.2 lbs

|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve    | 5/8-in OD Flared |
| Drain Connector   | 5/8-in OD        |

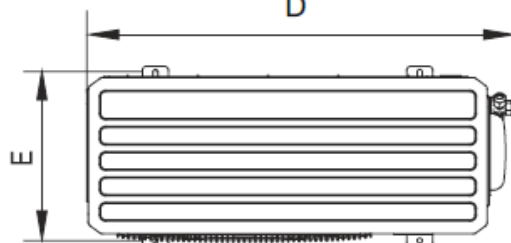
### OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS24HP230V1AO



| Dimensions |      |
|------------|------|
| A          | 22.0 |
| B          | 15.3 |
| C          | 27.6 |
| D          | 38.0 |
| E          | 14.3 |



Weight (Net/Gross) 110.3/120.2 lbs

|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve    | 5/8-in OD Flared |

**Notes:**

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Bare Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.



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